

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P652434

Luminaire Tested: **GALN-SA6B-840-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652434  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-840-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23249.4 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

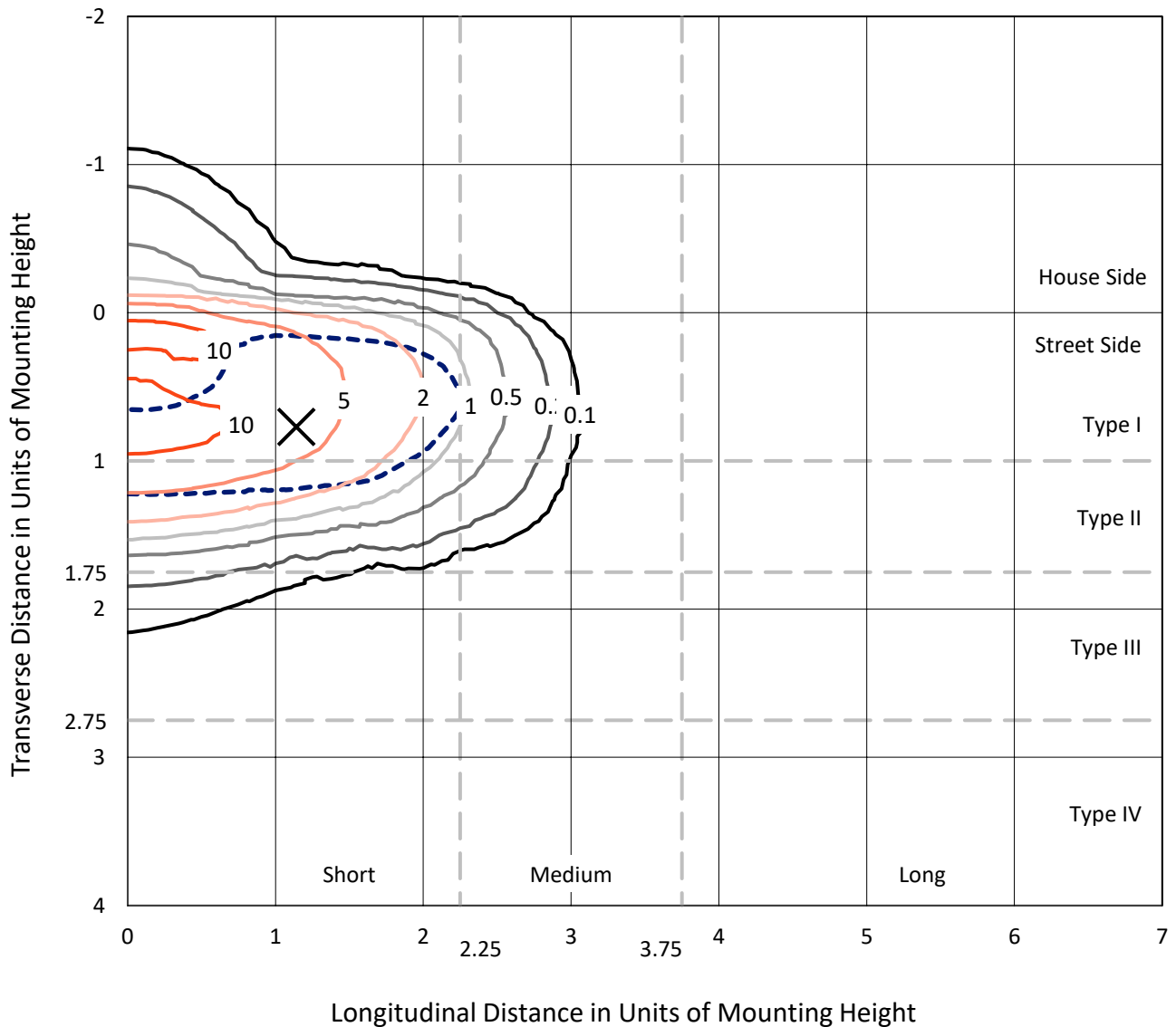
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

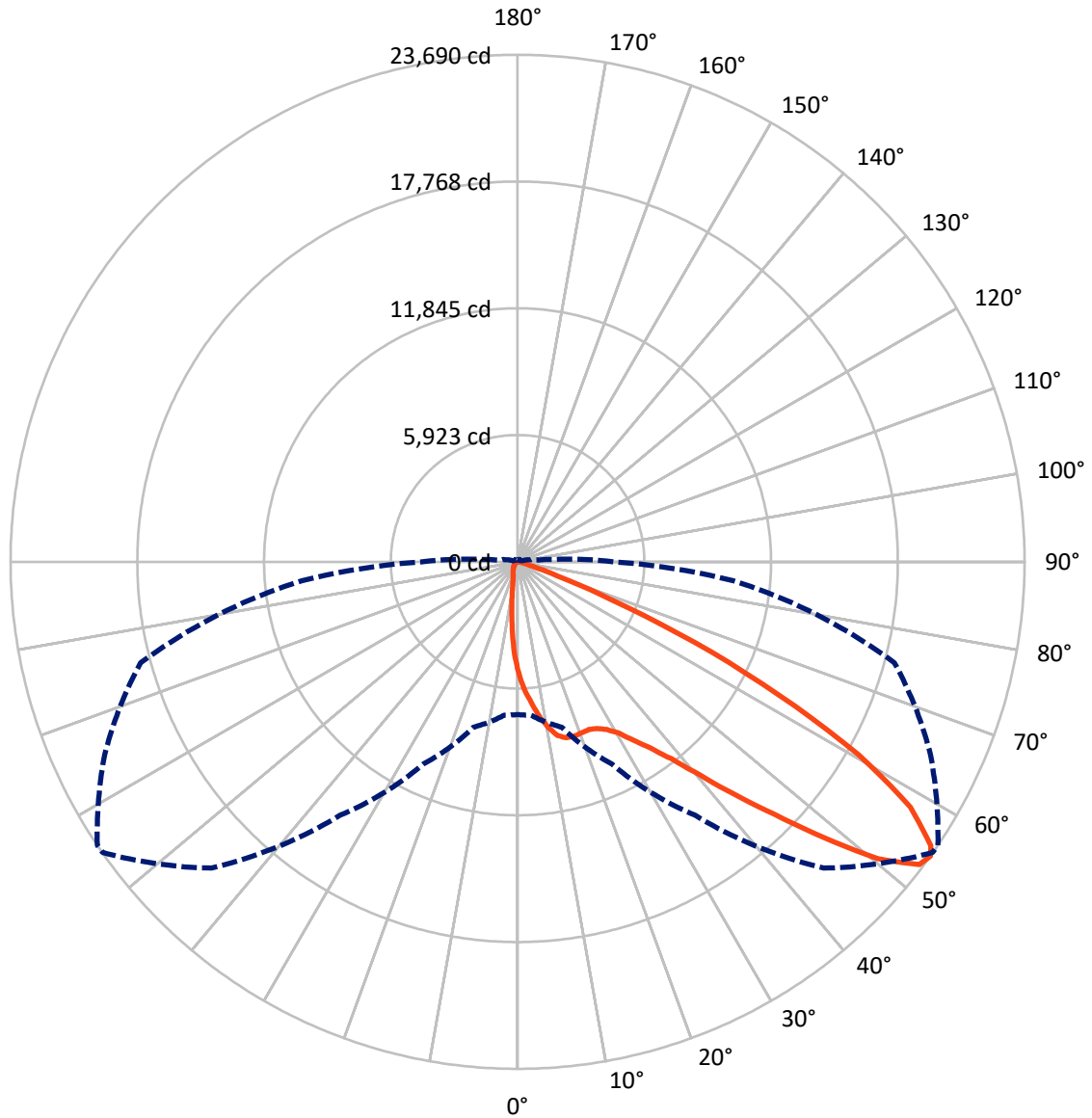
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1099.4	0.0	1099.4
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	22150.0	0.0	22150.0
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	23249.4	0.0	23249.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	456.4	2.0
10°-20°	1233.9	5.3
20°-30°	2137.0	9.2
30°-40°	3688.9	15.9
40°-50°	6278.6	27.0
50°-60°	6213.4	26.7
60°-70°	2835.9	12.2
70°-80°	364.2	1.6
80°-90°	41.0	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	23249.4	100.0
0°-180°	23249.4	100.0

**Coefficient of Utilization**

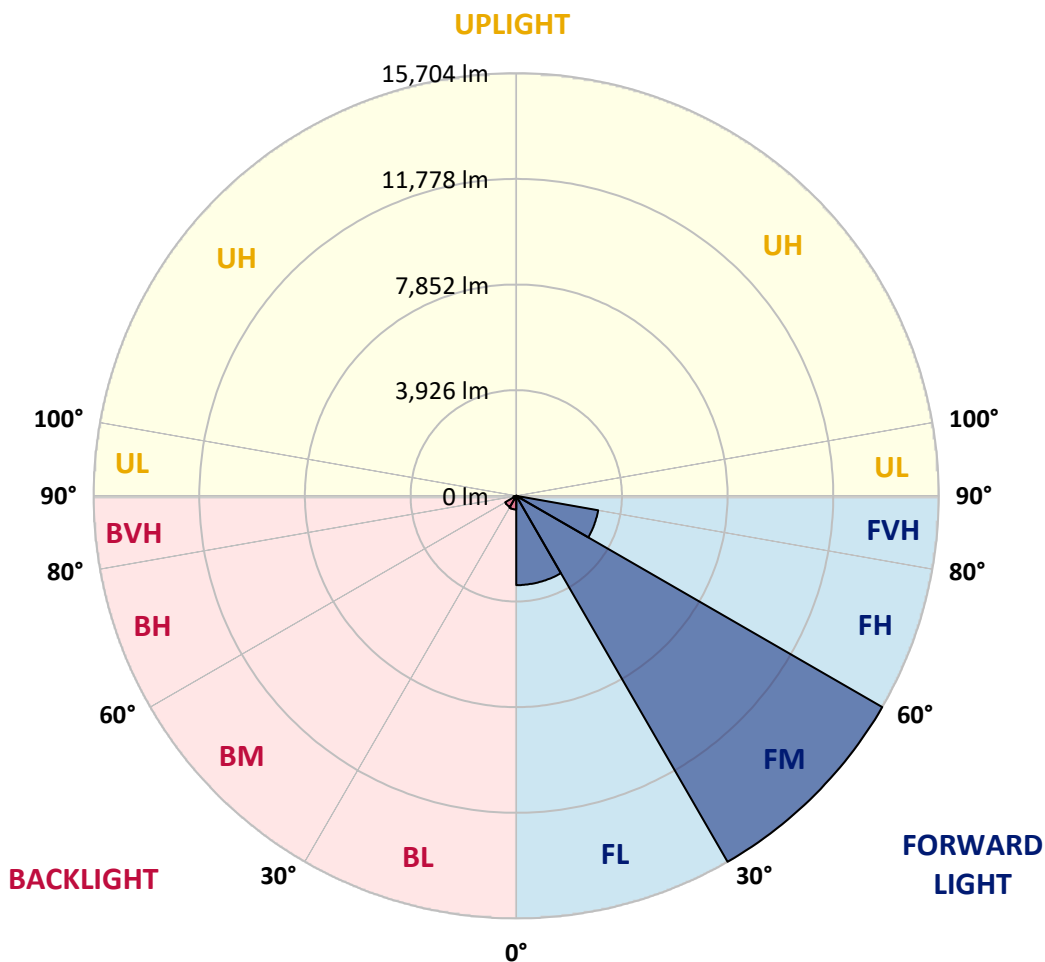


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3318.9	14.3			
FM (30°-60°)	15704.4	67.5			
FH (60°-80°)	3090.0	13.3			G2/5000
FVH (80°-90°)	36.6	0.2			G1/100
BL (0°-30°)	508.5	2.2	B2/1000		
BM (30°-60°)	476.5	2.0	B1/1000		
BH (60°-80°)	110.1	0.5	B1/500		G1/500
BVH (80°-90°)	4.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5165.3	5165.3	5165.3	5165.3	5165.3	5165.3	5165.3	5165.3	5165.3	5165.3	5165.3
2.5°	6564.5	6519.0	6456.3	6407.7	6293.2	6128.5	5954.4	5954.4	5786.5	5552.8	5314.4
5°	7571.6	7541.8	7480.6	7355.1	7226.5	6995.9	6646.1	6584.9	6285.3	5861.8	5416.3
7.5°	7981.0	7995.1	7998.2	7965.3	7904.1	7676.6	7330.0	7287.7	6809.2	6241.4	5549.7
10°	7588.8	7657.8	7725.3	7861.8	8054.7	8109.6	7913.6	7869.6	7399.0	6625.7	5694.0
12.5°	7005.3	7043.0	7080.6	7295.5	7683.0	8126.8	8332.4	8330.8	7932.3	7008.5	5877.5
15°	6734.0	6766.9	6770.0	6865.7	7201.4	7847.6	8511.2	8534.7	8453.1	7480.6	6075.1
17.5°	6790.4	6817.1	6795.1	6818.7	6994.3	7540.2	8490.7	8569.2	8875.1	7933.9	6253.9
20°	7159.0	7210.8	7126.1	7060.2	7113.5	7458.7	8421.8	8531.5	9173.1	8376.3	6417.1
22.5°	7821.0	7849.2	7742.6	7562.2	7468.1	7629.6	8402.9	8511.2	9427.2	8738.6	6511.2
25°	8556.7	8547.3	8429.6	8227.3	8029.6	7974.7	8526.8	8624.1	9637.4	9064.9	6539.4
27.5°	9292.3	9320.6	9122.9	8872.0	8635.1	8492.3	8804.5	8876.7	9874.3	9436.6	6573.9
30°	10147.2	10101.7	9907.2	9620.1	9348.8	9149.6	9251.5	9271.9	10200.5	9929.2	6664.9
32.5°	11259.3	11133.8	10915.8	10413.9	10219.3	9882.1	9907.2	9932.3	10597.4	10417.0	6774.8
35°	12768.3	12762.0	12335.4	11659.3	11185.6	10766.8	10657.0	10677.3	11198.2	11141.7	7017.9
37.5°	14584.7	14609.9	14123.6	13442.8	12570.7	11905.6	11679.7	11682.8	12111.1	12142.4	7388.0
40°	16063.9	16129.8	15839.6	15380.0	14518.9	13478.9	13099.2	13064.8	13394.2	13354.9	7916.7
42.5°	16700.7	16761.9	16870.1	17030.2	16556.4	15698.4	14802.8	14849.8	14950.2	14675.7	8509.6
45°	16388.6	16485.9	16910.9	17899.2	18344.6	18056.0	16987.8	16823.1	16398.0	16111.0	9105.7
47.5°	15088.2	15325.1	16035.7	17681.1	19240.3	20216.0	19453.6	19235.6	17847.4	17158.8	9485.2
50°	12950.2	12964.4	13954.1	16057.6	18776.0	21579.1	21971.2	21808.1	19197.9	17747.0	9676.6
52.5°	9388.0	9697.0	10603.7	13039.7	16765.1	21372.0	23575.8	23508.4	20590.9	18048.2	9952.6
54°	7137.1	7196.7	8003.0	10420.2	14454.5	20234.8	23674.7	23690.4	21282.6	18230.1	10115.8
55°	5850.8	5708.1	6555.1	8876.7	12878.1	19229.3	23351.5	23426.8	21593.2	18324.2	10236.6
57.5°	2773.3	2774.8	3422.6	4682.3	8065.7	14931.4	21376.7	21643.4	21627.7	18485.8	10608.4
60°	1403.9	1413.3	1556.0	2161.5	3984.2	9926.0	17674.9	18310.1	19963.4	18509.3	10730.7
62.5°	982.0	970.9	947.4	1040.0	1676.8	5044.6	13158.9	13711.0	16961.1	17613.7	10341.7
65°	840.7	817.2	751.3	737.2	847.1	2009.4	8195.9	9096.3	12950.2	15251.4	9234.3
67.5°	718.4	709.0	649.4	613.3	599.2	875.3	4228.9	4702.6	8851.5	10962.9	6994.3
70°	610.1	605.4	569.4	523.9	484.7	523.9	1568.5	1943.5	4933.2	5902.6	3300.3
72.5°	495.7	500.4	506.6	448.6	407.8	371.7	669.8	779.6	2064.2	2109.7	1154.4
75°	434.5	429.8	429.8	390.6	340.4	276.1	368.6	396.9	632.2	586.7	268.2
77.5°	305.9	294.9	345.1	321.6	283.9	196.0	210.2	222.8	262.0	224.3	125.5
80°	211.8	211.8	221.2	288.6	255.7	142.7	128.6	138.0	155.2	133.3	72.2
82.5°	119.3	122.4	144.3	153.7	149.0	95.7	84.7	86.3	103.5	91.0	45.5
85°	14.1	23.5	83.2	81.6	61.1	42.4	47.1	48.6	64.3	56.4	26.7
87.5°	1.6	3.1	17.2	22.0	15.7	17.2	17.2	17.2	22.0	25.1	18.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5165.3	5165.3	5165.3	5165.3	5165.3	5165.3	5165.3	5165.3	5165.3	5165.3	5165.3
2.5°	5185.8	5066.5	4782.6	4453.2	4243.0	3901.1	3612.4	3403.9	3352.1	3251.6	3281.5
5°	5179.5	4931.6	4352.8	3741.1	3088.6	2602.3	2239.9	1954.5	1829.0	1745.8	1687.8
7.5°	5182.6	4795.1	3866.6	2892.5	2112.9	1636.0	1300.4	1126.3	1010.2	961.5	967.8
10°	5192.0	4641.5	3301.9	2142.7	1425.8	1057.2	851.8	768.6	729.4	723.1	721.6
12.5°	5213.9	4473.6	2762.3	1590.6	997.6	768.6	690.2	662.0	649.4	649.4	644.7
15°	5237.5	4288.5	2313.7	1182.7	768.6	660.4	624.3	610.1	602.3	602.3	600.8
17.5°	5237.5	4075.1	1894.9	917.6	662.0	607.0	578.8	560.0	553.7	553.7	552.1
20°	5204.6	3827.4	1523.1	738.8	600.8	556.8	528.7	508.2	500.4	497.3	495.7
22.5°	5090.1	3496.4	1212.6	635.3	550.6	512.9	476.8	453.3	447.1	443.9	445.5
25°	4886.1	3123.1	960.0	558.4	505.1	459.6	428.2	411.0	404.7	404.7	406.3
27.5°	4676.0	2732.5	760.8	500.4	450.2	409.4	384.3	373.3	371.7	376.4	378.0
30°	4481.4	2340.3	616.5	453.3	401.6	367.0	349.8	346.7	346.7	348.3	349.8
32.5°	4265.0	1996.8	516.0	412.5	362.3	332.5	323.1	323.1	326.3	326.3	329.4
35°	4128.6	1701.9	453.3	373.3	332.5	307.5	301.2	302.8	307.5	313.7	316.9
37.5°	4054.8	1466.6	412.5	342.0	304.3	287.0	280.8	283.9	294.9	305.9	307.5
40°	4061.1	1289.3	379.6	315.3	282.3	263.5	258.8	268.2	279.2	290.2	291.7
42.5°	4130.1	1157.6	348.3	283.9	263.5	236.8	235.3	244.7	249.4	260.4	262.0
45°	4211.6	1061.9	315.3	251.0	229.0	205.5	207.1	214.9	221.2	238.4	241.5
47.5°	4236.8	996.1	277.6	213.4	188.2	180.4	182.0	186.7	199.2	214.9	216.5
50°	4265.0	955.3	241.5	180.4	160.0	158.4	160.0	163.2	171.0	177.3	175.7
52.5°	4385.7	953.7	211.8	156.8	136.5	139.6	141.2	139.6	133.3	123.9	120.8
54°	4498.7	958.4	197.6	145.9	125.5	130.2	128.6	120.8	105.1	95.7	91.0
55°	4589.7	963.1	189.8	138.0	119.3	120.8	122.4	106.6	86.3	76.9	73.8
57.5°	4768.5	952.1	171.0	120.8	105.1	98.8	97.2	70.6	47.1	40.8	37.7
60°	4679.1	859.6	155.2	103.5	89.4	80.0	65.9	39.2	23.5	17.2	17.2
62.5°	4327.7	729.4	138.0	84.7	73.8	61.1	34.5	22.0	11.0	6.3	4.7
65°	3871.3	613.3	123.9	67.4	58.0	39.2	18.8	14.1	4.7	0.0	0.0
67.5°	2878.3	454.9	105.1	53.3	43.9	25.1	12.5	7.8	1.6	0.0	0.0
70°	1333.3	277.6	89.4	40.8	31.4	18.8	9.4	4.7	0.0	0.0	0.0
72.5°	382.7	174.1	73.8	29.8	22.0	15.7	7.8	3.1	1.6	0.0	0.0
75°	133.3	139.6	54.9	22.0	17.2	11.0	6.3	3.1	1.6	0.0	0.0
77.5°	80.0	112.9	34.5	18.8	14.1	9.4	6.3	3.1	1.6	1.6	0.0
80°	45.5	75.3	22.0	15.7	12.5	7.8	4.7	3.1	1.6	1.6	0.0
82.5°	25.1	36.1	17.2	14.1	11.0	7.8	4.7	3.1	1.6	1.6	1.6
85°	20.4	18.8	14.1	12.5	9.4	6.3	4.7	1.6	0.0	0.0	0.0
87.5°	15.7	12.5	12.5	12.5	9.4	6.3	4.7	1.6	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)